IFWO

RAW SEQUENCE LISTING DATE: 09/13/2004
PATENT APPLICATION: **US/10/612,783A** TIME: 10:19:12

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

<110> APPLICANT: La Rosa, Thomas J.
Kovalic, David K.
Zhou, Yihua
Cao, Yongwei
<120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With Plants
<130> FILE REFERENCE: 38-21(53373)A
C--> 11 **<140> CURRENT APPLICATION NUMBER: US/10/612,783A**
C--> 11 **<141> CURRENT FILING DATE: 2003-07-02**
<160> NUMBER OF SEQ ID NOS: 7098

<210> SEQ ID NO: 1
<211> LENGTH: 442
<212> TYPE: DNA
<213> ORGANISM: Glycine max
<220> FEATURE:
<223> OTHER INFORMATION: Clone ID: PAT_MRT3847_100307C.1
<400> SEQUENCE: 1

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gtcccttggg tttcagaacg ttcaaagaga aagttccaag tctaagaaca agcacttctc 180
cttgttgctt gctgacacag ttatcataaa caaagataaa actgaagttg tgacctctat 240
gagctcaaag gctctaaaag atgttgcata ttctttcaat gaggatgagg aagaggaaaa 300
tcccagggct aaagctgaca ccaatggtgc tgagcccttg atgtctaaga caactctaag 360
gtcagacaat catgagatgt caaaggagga acttcgaagg cagcaccagg ccgaacttgc 420
tcgtcagaaa aatgaagaaa ct 442

<210> SEQ ID NO: 2
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<212> TYPE: DNA
<213> ORGANISM: Glycine max
<220> FEATURE:
<223> OTHER INFORMATION: Clone ID: PAT_MRT3847_100511C.1
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tatggcaaaa agggtcttct tgtacaagga tttggttcct tttggggcca tggtgaccat 180
ggaatgcctc aacgtagcct tgaatactct gttcaaagca gctaccttga gagggatgag 240
ttaccatgtc tttgttgttt atgcttatgc tgttgctgct attgttctca ttcctggacc 300
ctttatctcc caaaggtgca gatcaagagt gcttcctccg ctcagtttcc ccctactacg 360
caaaattggt cttctcgggc taatagggtg tgcttctcag atcgtgggat acacaggcat 420
cagtttcagt tcccccactc tctcctcggc gataagcaac ttggtgcccg cttttacttt 480
tttgcttgcc atcattttca ggatggaaaa ggtgattgta agaaatacaa cttgtcaagc 540
caaggtattg ggtaccatag tatcaataac tggagcattc gtagtgacct tctacaaagg 600
accaccaatc atcattgttc atacaccttc cttgtcactt catcaaccaa ttaacactct 660

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 72 gaattcggta gatcgaagtt gggcaattgg tggccttcta ctgacagcag agtatattct  720
 74 ggttccatta tggtacattg tacaggtgca aatcatgaag gtgtacccca atgaactaac  780
 76 tgtgatcttc ttttacaatt tatgtgtaag catcatggct gcaattgtag ctatatttac  840
 78 agagacaaat gcaggagctt ggaaaatagg actagataca gcattggctt caatagtttg  900
 80 ctctggaatt tttggttcat ttgtgaacaa cgcagttcac acatgggtac tacgtataaa  960
 82 gggtcctgtc tatgtggcaa tgttcaagcc actctcaatt gccatagctg ttgccttggg 1020
 84 agtcatgttc ctgggtgata cactccacct tggaagtcta gtgggagcca cagtaatatc 1080
 86 gatcggattt tatacagtaa tgtggggaaa agcaaccgaa gagaatgtgg acgaagatgt 1140
 88 ccctggccag caatcaccac caaccacaga gaatgttcct ctcttgcaaa gctataaaac 1200
 90 tgatacagct gaaaagaaaa tgcatggaag tgtataaatg acaaacaaaa ctgttgataa 1260
 92 atcttaacat tattgaaatt acacgaatag caaagcaaat acatggtttt gttttcgccc 1320
 94 aagctaaccc tgtaacgcca atagcaatta gcaaagtagg tacccacgcc tttagagtgt 1380
 96 agaggacatc atatgtaaga aatagttcaa gggttcaact gatctccttt cgccaaggaa 1440
 98 cataaacgaa tctttataca aattagggag caacctatct acaagtttgt gtacgaacac 1500
100 tcacagatga aaacggagca acttcgttat ctgtcttccc ttttcctgtc tcttgtaaca 1560
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108 <213> ORGANISM: Glycine max
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101219C.1
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117 aataatcaaa acaattggtt gggtttctca ctctctcctc aaatgcataa tataggagtt  120
119 tcttcacact cacaaccttc ctctgctgct gaagtggttc ctacaagctt ttaccaccac  180
121 actgctccac ttagtagcta tggtttctac tatggacttg aagctgaaaa tgttggattg  240
123 tattcagctt tgccaatcat gcccctcaaa tctgatggct ctctctatgg attggaaact  300
125 ttaagcaggt cacaagcaca agcaatggct actacttcaa caccaaaact ggagaacttc  360
127 ttaggtgggg aagccatggg gacccctcat cactacgaat gtagtgccac agaaacaatg  420
129 cctctgagct tagacagtgt tttttacatc caaccctcac gccgtgaccc aaataataac  480
131 caaacctacc aaaaccatgt tcaacacatt agcaccaacc aacaacaaca acagcaagag  540
133 cttcaagcat attactctac cttgagaaac catgatatga ta                     582
136 <210> SEQ ID NO: 4
137 <211> LENGTH: 228
138 <212> TYPE: DNA
139 <213> ORGANISM: Glycine max
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101254C.1
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148 gagttcgtgt acatggcgaa gctggcggag caggccgagc gctacgagga gatggtggag  120
150 ttcatggaga aggactacgc ctacgcctag agctaggagc tgaccgtgga agagcgcatc  180
152 ctcctctgcg taaactactt gaacgccttc agggctcgta gcgccttc               228
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157 <212> TYPE: DNA
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160 <220> FEATURE:
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Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

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169 aggcacagga aggttcttcg tgacaacatc cagggcatca cgaaacctgc gattcgtagg  180
171 ttagcgagaa gaggtggcgt gaagagaacc agtggtttga tctacgagga aaccaaagga  240
173 gttctgaaga tattcttgaa gaacgtgatt cccgatgctg tgacctacac tgagcacgct  300
175 aggaggaaac ctgttactgc tatggatgtc gtttatgctc ccaaaagaca gggaaggacc  360
177 ctctatggct ttggaggcta aagaatagaa tctttaggtt taatgactgt gttgcaggat  420
179 aaaacattgg ttcttttgaa tttgcgtgaa gtttagttta ggttttggtt tgttctgtaa  480
181 catacgaagc tatgtttgct cagaaaatgt aaaacttcaa ttgaacccta aatgaaggag  540
183 tgttgttttc gtggccccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctctag  600
185 aggatcca                                                          608
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202 atgtggaatt caaaccaaaa tcccaaatcc tcaaattcga ttcgtaccaa attttcttca  180
204 caaaatgtct ggtcgtggaa aaggtggcaa gggtttggga aagggaggtg ccaagaggca  240
206 cagaaaggtt cttcgtgaca acattcaagg tatcacgaaa cctgcgattc gtaggttagc  300
208 gagaagaggt ggcgtgaaga ggatcagtgg tttgatctac gaggaaacca gaggagttct  360
210 gaagatattc ttggagaacg tgattcgcga tgctgtgacc tacaccgagc acgctaggag  420
212 gaagacggtg actgccatgg atgtggttta tgctctcaag aggcagggaa ggaccctcta  480
214 tggtttcgga ggctgaatgg attgattctt agtattatta aattatgttg caggatataa  540
216 tattatgcct gttcttctga aattcggtgt gatgtttagt ttagattcgt tctgtaacat  600
218 atgaatcttc aaaggttctg ttcggcacag aaaatgtact actttaattg aaattaaaat  660
220 gaaggagcag cgttttcgtg gtgccttata catttttttc cacggttatg aagatttttt  720
222 cgctgtggtt cttaggttat tgcattgtgt ggattaattt gggggtaatc gaaaactgtg  780
224 tttaggttct gtttttaatg tagtttttga ttgtaaagga gtgatatgtt acgcattaag  840
226 taactgacaa attttcaatt ggaaatgcta ggatattagt tggaattgt               889
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230 <211> LENGTH: 645
231 <212> TYPE: DNA
232 <213> ORGANISM: Glycine max
234 <220> FEATURE:
235 <221> NAME/KEY: unsure
236 <222> LOCATION: (1)..(645)
237 <223> OTHER INFORMATION: unsure at all n locations
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240 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101659C.1
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246 aatttctctc gagaaaatgt ctggtcgtgg aaaaggtggc aagggtttgg gcaagggagg  120
248 cgccaagagg cacaggaaag ttcttcgcga taacattcag ggtatcacga aacctgcgtt  180
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Input Set : **D:\pa_00591.rpt**
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250 cggtaggtta gcgagaagag gtggtgtgaa gagaatcagt ggtttgatct acgaggaaac 240
252 caggggggtt ctgaagattt tcttggagaa cgtgattcga gatgctgtga cctacaccga 300
254 gcacgctagg aggaagacgg tgactgccat ggatgtggtt tatgcgctca agaggcaggg 360
256 aaggaccctc tacggttttg gaggctaaag aatttaaccc ttcttttctg ggttgcagga 420
258 taagacattg gttcttttga atttgcgtgg tgttttagtt taggtttgtt atgtatcata 480
260 cgaatctctg gtttgcatag aaaatatttc atttgaaatt taaatggagt atcgtttctg 540
262 ttaggcatat tatttcggct aaattagttt ttttttcttc tattctattt tattatttag 600
264 gtgtaatttg ttttttttta tgttttgaga ttcaaatgat gattt 645
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268 <211> LENGTH: 667
269 <212> TYPE: DNA
270 <213> ORGANISM: Glycine max
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101660C.1
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279 cgagaagacg acagaagggg atccaaattc aagttcgcac caaattttcc tcccaaaatg 120
281 tcaggccgtg gaaaaggtgg gaagggtttg ggaaagggag gagctaagag gcacagaaag 180
283 gttcttcgtg acaacattca aggaatcacg aaacctgcga ttcgtaggtt agcgagaaga 240
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287 ttcttggaga acgtgattcg cgatgctgta acctacactg agcacgctag gaggaaaact 360
289 gttactgcta tggatgtcgt ttatgctctc aagagacagg gaaggaccct ctatggcttt 420
291 ggaggctaaa gaatagaatc tttaggttta atgactgtgt tgcaggataa aacattggtt 480
293 cttttgaatt tgcgtgaagt ttagtttagg ttttggtttg ttctgtaaca tacgaagcta 540
295 tgtttgctca gaaaatgtaa aacttcaatt gaaatctaaa tgaaggagtg ttgttttcgt 600
297 ggcgcatatt ttctcacgat gatttgttct attcattgtt aatatgtcgt caaggttttt 660
299 gcatttg 667
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309 <222> LOCATION: (1)..(996)
310 <223> OTHER INFORMATION: unsure at all n locations
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321 gtggaaaggg tggaaagggt ttgggaaagg gaggtgccaa gaggcacagg aaggttcttc 180
323 gcgacaacat tcagggcatt acgaaacctg cgattcgtag gttagcgaga agaggtggcg 240
325 tgaagaggat cagtggtttg atctacgagg aaaccagagg ggttctgaag atattcttgg 300
327 agaacgtgat tcgcgatgct gtgacttata ccgagcacgc taggaggaag acggttactg 360
329 ccatggatgt tgtttatgct ctcaagagac agggaaggac cctctatggc tttggaggct 420
331 aaagagttgt ttttcttgtt gtcccatgtg ctcatttttct tggatgctga agatgtttag 480
333 gttcattttg taacatagga tgcttgttca gtttaatttt ggatgtaaaa tgttgaacta 540
335 tgattgaaat tatatggact aatttttttgt tggtggaagt atagcttgga atggcctcac 600
337 attgtttgtt tgatattagg aaaatattgc agtgaattat gaaatgtttt gacatggaaa 660

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PATENT APPLICATION: **US/10/612,783A** TIME: 10:19:13

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

339 aaaaaaaaaa aaaagggcgg ccgcccgcga tctagtgaaa ttaccagtta ctatactctc 720
341 tctttctgaa acaatttgcc caattgtttg agatgttcaa tatgagattt gtatctcaag 780
343 attgggtggt ttcatgtgca ctaatacttc tggtgtcatg cacaacatac tcatcagctt 840
W--> **345 ctttggggaa acctgagaac aacatanaaa catctgtttt taaatcaccc aagattgagc 900**
347 taggtccagg gttagtttca acaaatttta ttttgatgtt gactttccaa gaggccatat 960
349 tgcactcaag agtttcaatg ctgaattggg tgatga 996
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354 <212> TYPE: DNA
355 <213> ORGANISM: Glycine max
357 <220> FEATURE:
358 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101662C.1
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364 attcaaacag aaaacctaat ttctcaaatt tgatttcgca ccaaattttc ctcactaaaa 120
366 tgtctggtcg tggaaagggt ggcaagggtt tgggaaaggg aggtgccaag aggcacagga 180
368 aggttctgcg cgataacatt caaggaatca cgaaacctgc gattcgtagg ttagcgagaa 240
370 gaggtggcgt gaaaaggatc agtggtttga tctacgagga aaccagagga gttctgaaga 300
372 tattcttgga gaacgtgatt cgtgatgctg tgacctacac tgagcacgct aggaggaaga 360
374 cagtgactgc tatggacgtg gtttatgctc ttaagaggca gggaaggacc ctctacggtt 420
376 ttggaggctg aacaattctt tttttggctg tgctcctatg tgcttgttct cttggatgct 480
378 ggtgatgttt aggttcatcc tgtaacatag gcttattcag ctctagatgt aaaacgttga 540
380 accgtaattg gaattatatg aattagtact tttttgttgg tggc 584
383 <210> SEQ ID NO: 11
384 <211> LENGTH: 621
385 <212> TYPE: DNA
386 <213> ORGANISM: Glycine max
388 <220> FEATURE:
389 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101663C.1
391 <400> SEQUENCE: 11
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397 agaaaagttc ttcgtgataa cattcaaggt atcacgaaac ctgcgattcg taggttagcg 180
399 agaagaggtg gcgtgaagag gatcagtggt ttgatctatg aggaaaccag aggagttctg 240
401 aagattttct tggagaacgt gattcgagat gctgtgacct acactgagca cgctaggagg 300
403 aagacggtga ctgccatgga tgtggtttat gcgctcaaga ggcagggaag gaccctctat 360
405 ggtttcggag gctgaatgat tgattcttag tattattaaa ttatgttgca ggatataata 420
407 ttatgcctgt tcttctgaaa ttcggtgtga tgtttagttt aaattcgttc tgtaacatat 480
409 gaatctttaa aggttctgtt cggacagaaa atgtactact ttaattgaaa ttaaaatgaa 540
411 ggagcagcgt tttcgtggtg cattttatag cttaagcttt ttttctctta tgaaattgaa 600
413 gctcctgttg acttttttctt a 621
416 <210> SEQ ID NO: 12
417 <211> LENGTH: 240
418 <212> TYPE: DNA
419 <213> ORGANISM: Glycine max
421 <220> FEATURE:
422 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101916C.1
424 <400> SEQUENCE: 12
426 ccacagtcca ttgctgtggc tccctctagt actactacta ctactactaa ttatggctat 60

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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 11
Seq#:9; N Pos. 867
Seq#:13; N Pos. 1096
Seq#:40; N Pos. 2,44,55,57,76,86,97
Seq#:41; N Pos. 21,22,26,28,30,31,32,33,38,39
Seq#:47; N Pos. 12,21,37,40,51,53,59,61,89,100,130,174,179,213,292,294,305
Seq#:49; N Pos. 2,11,17,19,27,31,59,64,71,101,102,125,131,132,145,147,220
Seq#:49; N Pos. 224,230,234,240,243,272,279
Seq#:51; N Pos. 3,51,54,61,91,274
Seq#:59; N Pos. 814
Seq#:65; N Pos. 385,464
Seq#:69; N Pos. 13,24,52,65,66,72,73,80,88,102,112,116,129,130
Seq#:71; N Pos. 20,41,55,57,83,102,138,142,144,163
Seq#:73; N Pos. 5,7,21,33,34,36,40,41,42,56,61,88,103,115,117,119,125,128
Seq#:73; N Pos. 169,178,195,197,210,226,227,228,229,234,241
Seq#:78; N Pos. 1486
Seq#:90; N Pos. 1
Seq#:91; N Pos. 2113,2114,2120,2126,2127
Seq#:103; N Pos. 69,76,82,84,87,89,97,115,123,124,136,140,153,162,171,193
Seq#:103; N Pos. 208,214,222,233,239,249,253
Seq#:107; N Pos. 2114,2115,2116,2118
Seq#:112; N Pos. 7,9,32,41,46,72,86,90,99,135,138,169,171,172,174,177,185
Seq#:112; N Pos. 195,197,198,206,209,210,219,244,262
Seq#:119; N Pos. 305,505
Seq#:157; N Pos. 30
Seq#:159; N Pos. 565
Seq#:167; N Pos. 32
Seq#:170; N Pos. 32
Seq#:171; N Pos. 401
Seq#:182; N Pos. 391,432,433
Seq#:188; N Pos. 456
Seq#:199; N Pos. 12,21,24,53,71,188,260,263
Seq#:210; N Pos. 10,22,25
Seq#:222; N Pos. 410
Seq#:235; N Pos. 482,494
Seq#:242; N Pos. 694,695,712,713,714,715,723,724,725,726,727,731,737,738
Seq#:242; N Pos. 763,764,765,766,769,786,787,788
Seq#:244; N Pos. 40,41,86,93
Seq#:265; N Pos. 4
Seq#:287; N Pos. 583
Seq#:297; N Pos. 1769
Seq#:298; N Pos. 13,49,57,58,81,98,101,104,117
Seq#:299; N Pos. 1449,1451
Seq#:312; N Pos. 88

VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:840
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1080
L:2074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:2096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:2365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60
L:2369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:120
L:2371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:180
L:2373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:240
L:2375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:300
L:2450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:60
L:2454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180
L:2458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240
L:2499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:2501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
L:2507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240
L:2954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:780
L:3121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:360
L:3123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:420
L:3296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:3298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:60
L:3300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:120
L:3343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:3345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60
L:3347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120
L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:3390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:60
L:3392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:120
L:3394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180
L:3396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240
L:3628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:1440
L:4163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:4285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:2100
L:4962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:60
L:4964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:120
L:4966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:180
L:4968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:240
L:5205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:2100
L:5357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:5359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:60
L:5361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:120
L:5363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:180